

RBV KIT EQUIPMENT LIST (1 KIT PER SITE SAMPLED)

REQUIRED EQUIPMENT

Equipment	Rationale
SITE MAP(S)	To assist with navigation to field site. Record any unusual observations while at the site on the map and submit with datasheet and voucher to DEEP.
RBV DATA SHEET	To record the relative abundance of the organisms as they are reviewed. (Submit one per field site sampled.)
PENCIL(S)	To complete the datasheet and write the label for the vial. DO NOT USE MARKER OR PENS. Pencil will not dissolve in the alcohol while most pens and markers will.
DIGITAL CAMERA (or Smartphone)	To photo document the site (required). May also be used to photo document the process, and any unusual or unique conditions present.
GPS DEVICE (or Smartphone)	To record the exact location (latitude and longitude) of the site while in the field.
1-KICK NET	The net MUST BE a rectangular frame bottom kick net, 18" wide x 9" high x 10" deep, with a mesh size of 500 microns. DO NOT USE 'D-frame' or tapered bottom nets.
STOP WATCH	Any type of stop watch that can measure in second increments is suitable. In lieu of a stop watch a smartphone or a watch can also serve the purpose of timing kicks.
3-WHITE BOTTOM TRAYS	The tray is used to view and sort the contents collected during each set of kicks. The white bottom is important to provide contrast for the darker organisms.
3-PLASTIC ICE CUBE TRAYS	Provides a convenient tool to sort the organisms by type. Each well can hold all of one type of organism.
3+ FORCEPS and/or PLASTIC SPOON(S)	To remove the organisms from the tray and place into the ice cube trays/ to handle the organisms for identification.
RBV FIELD ID CARDS	To help in identification of the organisms collected in the sample.
RBV SORTING GUIDE	To help in identification of the organisms collected in the sample.
1 CLEAR, LEAK-PROOF CONTAINER	To store the voucher collection. One voucher should be submitted per site sampled. (One site includes macroinvertebrates from kicks at six riffle locations within that site.)
VOUCHER LABEL	Completed voucher label MUST INCLUDE: 1) stream/river name, 2) Specific location on stream (nearest road crossing or land mark) – include latitude/longitude if available, 3) Town, 4) Date sampled, 5) Time sampled, 6) organization name
ISOPROPYL ALCOHOL	To preserve the voucher collection. It is inexpensive and readily available as 'rubbing alcohol.'

OPTIONAL BUT RECOMMENDED EQUIPMENT

Equipment	Rationale
EQUIPMENT BAG	To contain the various other equipment during transport.
US # 30 SEIVE	Can be used to "clean up" the sample, particularly if there is a lot of fine material at the site, which can cause the water in the tray may be very cloudy.
HANDS LENSE(S)	To magnify the organisms for identification. Recommend using 10x or higher power.
WADERS & GLOVES	To keep the participant dry when in the water. These can be particularly desirable during colder weather. NOTE: PLEASE DO NOT USE FELT-SOLED WADERS - These assist in the spread of didymo, an invasive aquatic alga, and other invasives.
EXTRA ID MATERIALS	You may choose to supplement the RBV identification materials with other macroinvertebrate photo reference guides and/or taxonomic identification keys.